

Appl. No. 10/747,924
Amdt. dated October 20, 2006
Reply to Office Action of July 20, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An absorbent composite that exhibits an improved fluid intake rate, wherein at least one component ~~the components~~ of said composite ~~[[are]]~~ is treated to retain surface charges which create repulsive forces between said ~~composite components~~ at least one component upon fluid insult of said composite; wherein the treatment is a coating treatment, a chemical treatment, or combination thereof.
2. (currently amended) The composite of claim 1 wherein said composite ~~components comprise~~ comprises fluff fibers only, superabsorbent particles only, or combination thereof.
3. (canceled).
4. (previously presented) The composite of claim 1 wherein said treatment is the same for all components.
5. (original) The composite of claim 1 wherein said treatment is different for all components.
6. (original) The composite of claim 1 wherein said repulsive force is between superabsorbent particles only, fluff fibers only, superabsorbent particles and fibers, or combinations thereof.
7. (original) The composite of claim 1 wherein said composite has an increased void volume.
8. (original) The composite of claim 1 wherein said composite has increased flow channels.
9. (currently amended) The composite of claim 1 wherein said composite has ~~[[and]]~~ an increased permeability.

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10. (original) The composite of claim 1 wherein said composite has an increased swelling thickness.
11. (currently amended) The composite of claim 1 wherein said composite ~~components comprise~~ comprises at least one type of fiber having a like charge to at least one SAP within said composite that provides a desired repulsive property without treatment of said at least one type of fiber.
12. (currently amended) The composite of claim 1 wherein said composite ~~components comprise~~ comprises at least one SAP having a like charge to at least one type of fiber within said composite that provides a repulsive property without treatment of said at least one SAP.
13. (currently amended) The composite of claim 1 wherein said at least one component comprises ~~components comprise at least superabsorbent particles~~ in the 300 to 600 microns size range.
14. (currently amended) The composite of claim 1 wherein said at least one component comprises ~~components comprise at least superabsorbent particles~~, and wherein at least 50 percent of said particles are in the 300 to 600 micron size range.
15. (currently amended) The composite of claim 1 wherein said at least one component ~~components~~ having said repulsive forces ~~[[are]]~~ is selectively segregated within said composite.
16. (currently amended) The composite of claim 15 wherein said at least one component is ~~components are~~ segregated disposed in at least one discrete layer, strip, section, or combination thereof in said composite.
17. (original) A disposable absorbent article comprising the composite of claim 1.
18. (previously presented) The article of claim 17 wherein said composite is selectively segregated within said article.

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19. (original) The article of claim 17 wherein said composite is in the form of at least one discrete layer, strip, section, or combination thereof in said article.

20. (withdrawn) A method of making an absorbent composite comprises treating at least one component of said composite to produce a repulsive force within said composite to increase the void volume of said composite.

21. (withdrawn) A method of making an absorbent composite comprises treating at least one component of said composite to produce a repulsive force within said composite to increase the fluid intake rate of said composite.

22. (withdrawn) The method of claim 21 wherein said composite components comprise fluff fibers only, superabsorbent particles only, or combination thereof.

23. (withdrawn) The method of claim 21 wherein said treatment is a coating, chemical, electron beam, radiation, corona treatment, or combination thereof.

24. (withdrawn) The method of claim 21 wherein said treatment is same for all components.

25. (withdrawn) The method of claim 21 wherein said treatment is different for all components.

26. (withdrawn) The method of claim 21 wherein said repulsive force is between superabsorbent particles only, fluff fibers only, superabsorbent particles and fibers, or combinations thereof.

27. (withdrawn) The method of claim 21 wherein said composite has an increased void volume.

28. (withdrawn) The method of claim 21 wherein said composite has and increased permeability.

29. (withdrawn) The method of claim 21 wherein said composite has an increased swelling thickness.

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30. (withdrawn) The method of claim 21 wherein said composite components comprise at least one type of fiber having a complimentary charge to at least one SAP within said composite that provides a desired repulsive property without treatment of said at least one type of fiber.

31. (withdrawn) The method of claim 21 wherein said composite components comprise at least one SAP having a complimentary charge to at least one type of fiber within said composite that provides a desired repulsive property without treatment of said at least one SAP.

32. (withdrawn) The method of claim 21 wherein said components comprise at least superabsorbent particles in the 300 to 600 microns size range.

33. (withdrawn) The method of claim 21 wherein said components comprise at least superabsorbent particles, and wherein at least 50 percent of said particles are in the 300 to 600 micron size range.

34. (withdrawn) A means for modifying the surface charge of the components of an absorbent composite so that a repulsive force is generated upon consecutive fluid insults which result in an increased fluid intake rate of said composite.